Thursday, May 05, 2011 11:45:42 AM



Page 1

Item ID:

D3391-023

Revision ID: Item Name:

Mid Tube Assembly

Start Date:

5/5/2011

Start Oty: 1.00

Required Date: 5/20/2011

Req'd Qty: 1.00



Accept



Setup Start





Cust Item ID:

Customer:

Reference:

Approvals:					
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Tooling: SPC (\dot{Y}/N) : Date:

Date:

Run

Start

Stop



Sequence ID/ Work Center ID

Operation Description Set Up/ **Run Hours** Tool ID

Tool # Plan

Accept Qty Code

Reject **Qty**

Reject Number

Insp. Stamp

Draw Nbr

Revision Nbr

Rev H D3391

/ 100

Skidtubes Skidtubes

Skidtubes

0.00

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391

1 8 861/05/17

W/O:			WO							
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Page 2

Item ID

D3391-023

Accept



Setup Start



Stop

Revision ID: Item Name:

Mid Tube Assembly

Start Date:

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

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Tooling:

SPC (Y/N):

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Date:

Run

Start



Stop

Sequence ID/ Work Center ID

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Operation Description Set Up/ **Run Hours** Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

- 13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021
- 14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.
- 15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937
- 16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.
- 17- counterbore two aft wearplate holes in D3391-021 as per dwg
- 18- Open 12 wearplate holes in D3391-021 to 0.297" dia.
- 19-Deburr and blow out all chips from inside tube

W/O:		WORK ORDER CHANGES							
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4536	JUD	AB Fuel saddle holds all nut allow the shall. Saddle bulk to install.		Acceptable to file inner holes to allow installation of saddle bolts	162/30/11	11.05.3W	11. 15. 50 (OSTUR	O les la	
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Page 3

Item ID:

D3391-023

Accept



Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

5/5/2011

Start Qty: 1.00

Required Date: 5/20/2011

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Tool ID

Run

Start

Stop

Stop

Date:

SPC (Y/N):

Date:

Tool # Plan

Code

Accept

Qty

Reject Qty

Insp. Stamp Number

Sequence ID/ Work Center ID

110

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ Run Hours

0.00

D Wostig

Reject

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QS1005 4.1

Memo

Memo

0.00

0.00

130

QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

W/O:			WO	RK ORDER CHANG	iES	-		•		٠, ١
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Page 4

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Required Date: 5/20/2011

Mid Tube Assembly

Start Date:

5/5/2011

Start Qty: 1.00

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Cust Item ID:

Tool ID

Customer:

Reference:

Approvals:	
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Process Plan: _____

Date: _____

Date:

Tooling: SPC (Y/N):

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Tool # Plan

Code

Date:

Start

Reject

Qty

Run

Accept

Qty

Stop



Insp. Stamp

Reject

Number

Sequence ID/

Work Center ID

140

Skidtubes

Skidtubes

Operation Description Set Up/ **Run Hours**

0.00

0.00

Skidtubes

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours) A/R Sikaflex exp: \2 01/5

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

160

Skidtubes

Skidtubes

0.00

0.00

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

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W/O:			W	ORK ORDER CHANG	GES					1
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Required Date: 5/20/2011

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Page 5

Item ID:

D3391-023

Accept



Setup Start



Stop

Revision ID: Item Name:

Start Date:

Mid Tube Assembly

5/5/2011 Start Qty: 1.00

Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop



Memo

SPC (Y/N):

Set Up/

Date:_

Tool # Plan

Code

Qty

Sequence ID/ Work Center ID

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Run Hours

Accept Reject Qty!

Reject Number Stamp

Insp.

180

Quality Control

QC5- Inspect part completeness to step on W/O

185

HandFinish

Hand Finishing

Pressure Wash per QS1005 4.3

Memo

0.00

0.00

AND REALODINE AS PER PAR09-043

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W/O:			W	ORK ORDER CHANG	GES		***************************************		
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Page 6

Item ID:

D3391-023

Accept



Setup Start



Revision ID: Item Name:

Start Date:

Mid Tube Assembly

5/5/2011

Start Qty: 1.00

Req'd Oty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

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Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop



Required Date: 5/20/2011

OC:

Date:

SPC (Y/N):

0.00

0.00

Set Up/

Run Hours

Date:

Tool # Plan

Code

Accept

Qty

Reject Qty

1 18 31-5-26

Reject Number Stamp

Insp.

Sequence ID/ Work Center ID

190



Powdercoat

· Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

M 11696

Memo

START TIME: FINISH TIME:

200

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

W/O:			WO	RK ORDER CHAN	GES				, ,
DATE	STEP	PRO	OCEDURE CHAN		Ву	Da	ate Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Page 7

D3391-023 Item ID: Accept Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly Start Qty: 1.00 **Start Date:** 5/5/2011 **Cust Item ID:** Required Date: 5/20/2011 Req'd Qty: 1.00 **Customer:** Reference: Start Run Process Plan: Date: Tooling: **Approvals:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ **Operation** Tool ID Tool # Plan Reject Set Up/ Accept Reject **Work Center ID** Qty Description Number Stamp **Run Hours** Code Oty 210 0.00 Skidtubes Skidtubes 0.00 Memo 1- insert D3391-021 into D3391-23-Skidtubes 2- insert T-pins into first and third fwd saddle holes 3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364 4- remove T-pins and locate DT9415 from first and third crossbolt hole using T-✓ 5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove deburr, re-alodine and blow out chips

220

QC

Quality Control

Memo

OC5- Inspect part completeness to step on W/O

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

Dulos/3/

Insp.

W/O:			WC	RK ORDER CHA	NGES			•		, , ,
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Work Order ID 6922	Wo	ork	Ord	ler I	D 6	92	21
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Thursday, May 05, 2011 11:45:42 AM



Page 8

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date: Date: Run

Start Stop

Stop



Date:_____

SPC (Y/N):

Tool ID

Tool # Plan

Code

Accept Qty

Reject Otv

Insp. Stamp Number

230

Sequence ID/

Work Center ID

HandFinish

Hand Finishing

Operation Description

HandFinishing

Install Inserts as per Dwg

Memo

0.00

Set Up/

Run Hours

0.00

Reject

H 108/30

240

QC5- Inspect part completeness to step on W/O

Memo

Quality Control

250

Packaging Packaging

Identify as per dwg & Stock Location: W D

0.00

0.00 D412-742-043 B64981

Memo

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Thursday, May 05, 2011 11:45:42 AM



Page 9

Item ID:

D3391-023

Accept



Setup Start



Stop

Revision ID: Item Name: **Start Date:**

Mid Tube Assembly

Required Date: 5/20/2011

5/5/2011

Start Oty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Start



QC:

Operation

Description

Date:

SPC (Y/N):

Set Up/

Date:

Tool # Plan

Stop

Sequence ID/

Work Center ID

260

QC

Memo

QC21- Final Inspection - Work Order Release

Run Hours

0.00

Code Qty

Accept

Run

Reject Qty

Reject Insp. Number

Stamp

Quality Control

0.00

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Picklist Print

Thursday, May 05, 2011 11:45:49 AM

Work Order ID: 69221

Parent Item:

D3391-023

Parent Item Name:

Mid Tube Assembly



Start Date: 5/5/2011

Start Qty: 1.00

Required Date: 5/20/2011

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

IPP C # 07:03.20 rev F dwg IPP D 07.03.28 re-format

IPP E 07.10.31 ecn 1053P

IPP Rev;F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev. J. 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev. J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by: EC

KJ/EC□

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Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Qty	Qty Issued	Date Issued	Status
D2500-1-100 Skidtube Extrusion		Manufactured	No			100	Each	95.0000		î l	BE	11/05/17	>
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					37065		13			·····			
D2201-021		34 6	N7		50251	100	82 Fach	0.0000		/			
D3391-021 Fwd Tube Assembly		Manufactured	No	BG	630	3	Each	0.0000		(xť) 、	M	4051	30
D3389-1		Manufactured	No			140	Each	2.0000	1	1		•	
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Picklist Print

Thursday, May 05, 2011 11:45:49 AM

Work Order ID: 69221

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 5/5/2011

Required Date: 5/20/2011

Page 2

Start Qty: 1.00

Required Oty: 1.00

D3681-1

Spacer

Manufactured No

160

Loc Qty

Loc Qty

Each

19.0000

D3591-1

Manufactured No LG 68958

Location

210

19 Each

55

19

55.0000

Loc Code

41651

Bushing

ALS4-1032-130

No

Purchased

Location ST068 57350 66147

18 37 230 Each Loc Code

1,338.000

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Insert

Location ST281

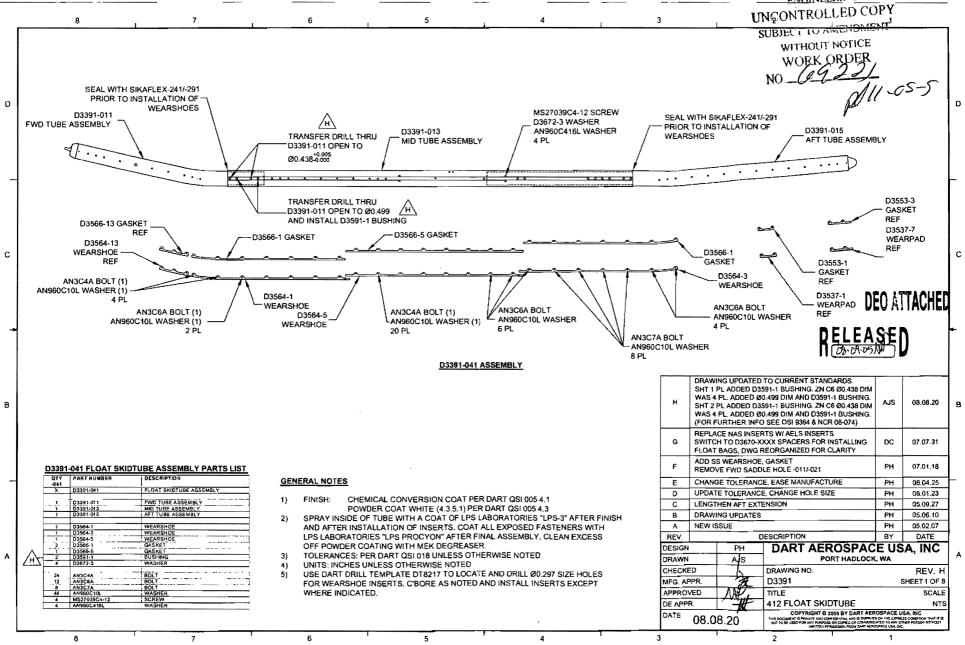
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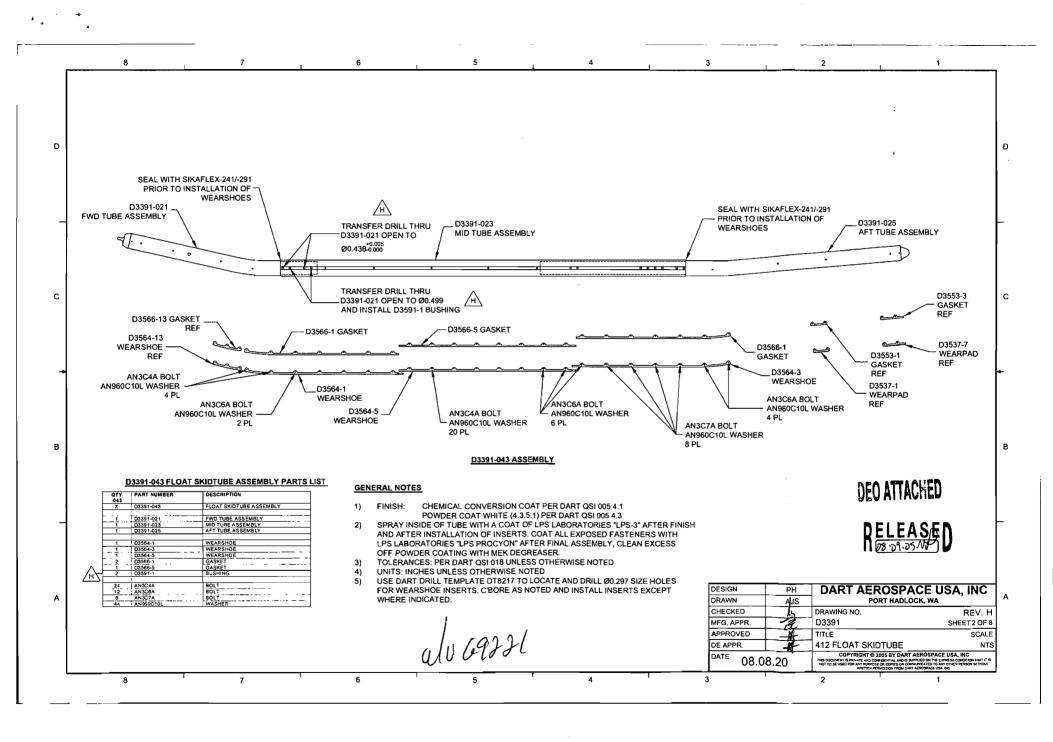
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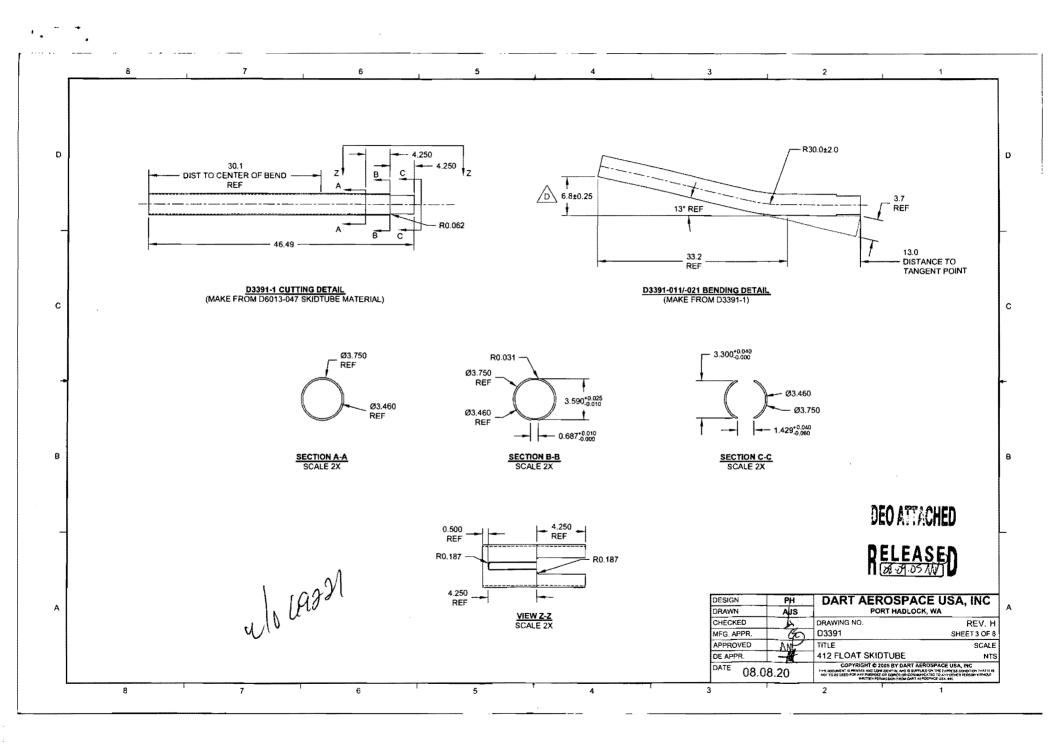


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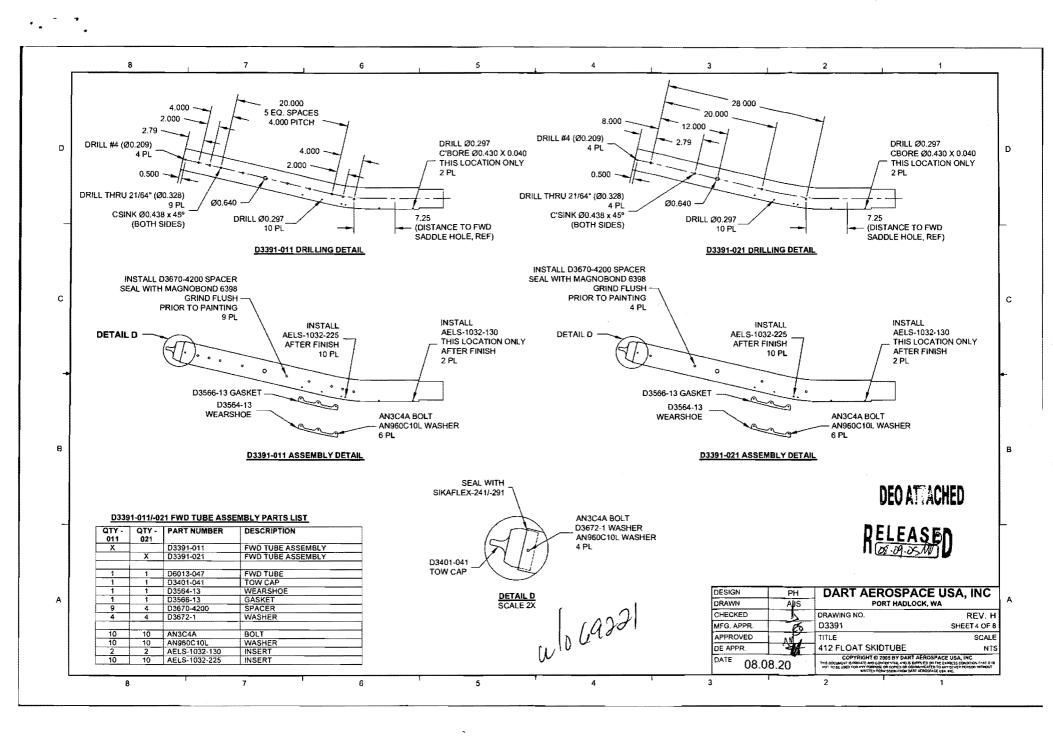
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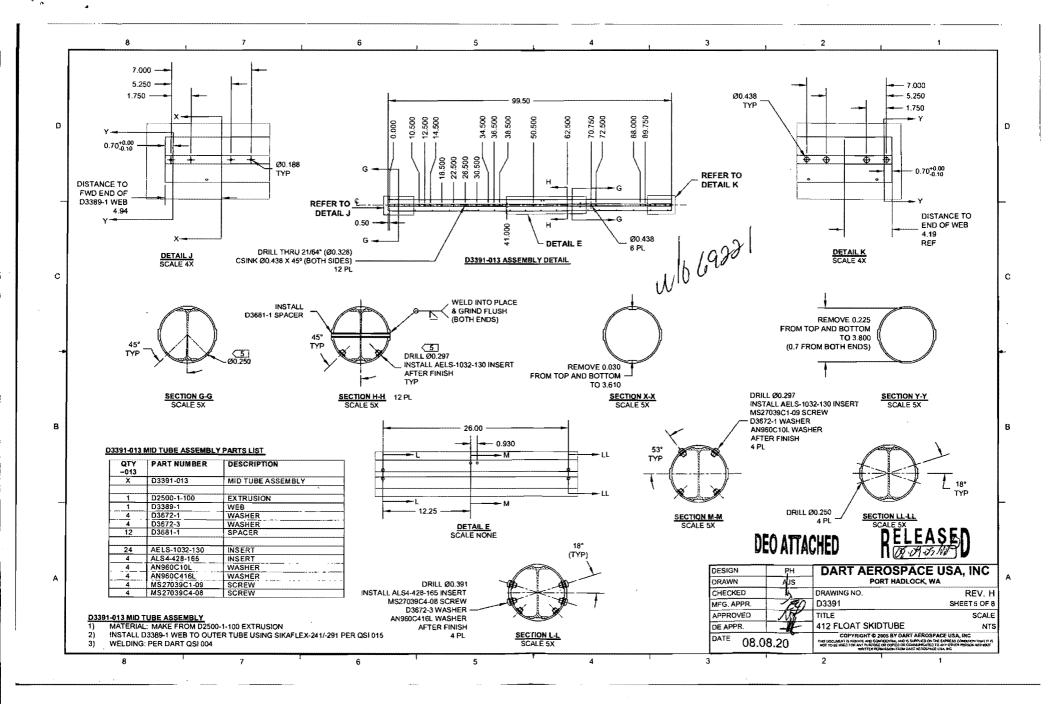
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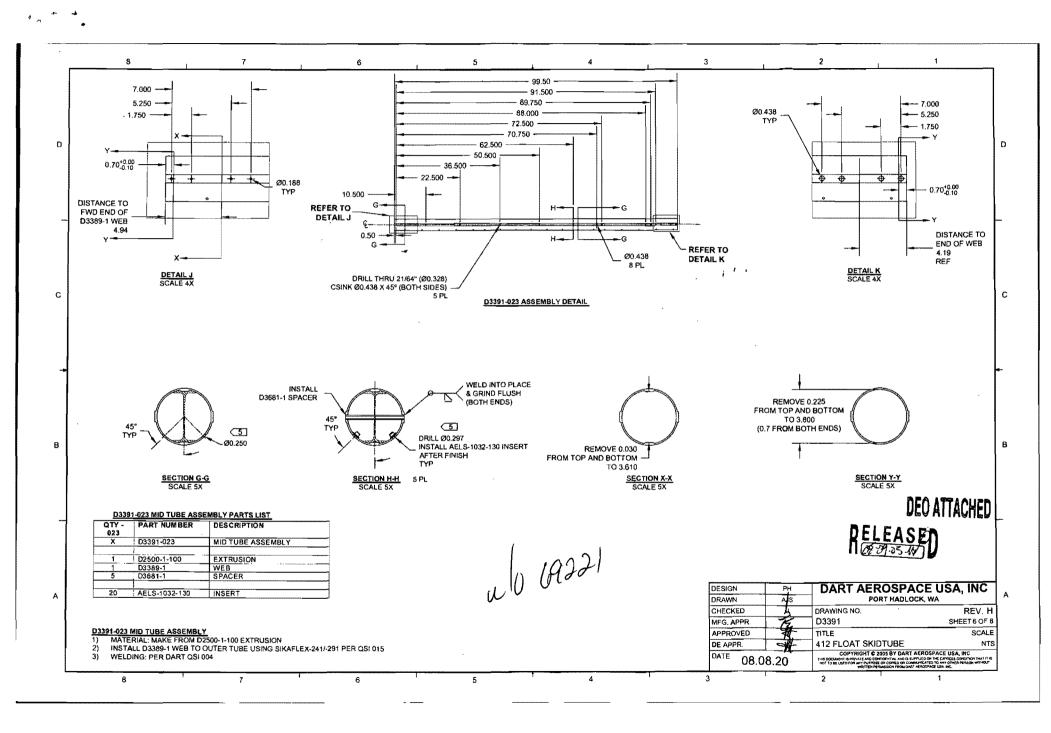
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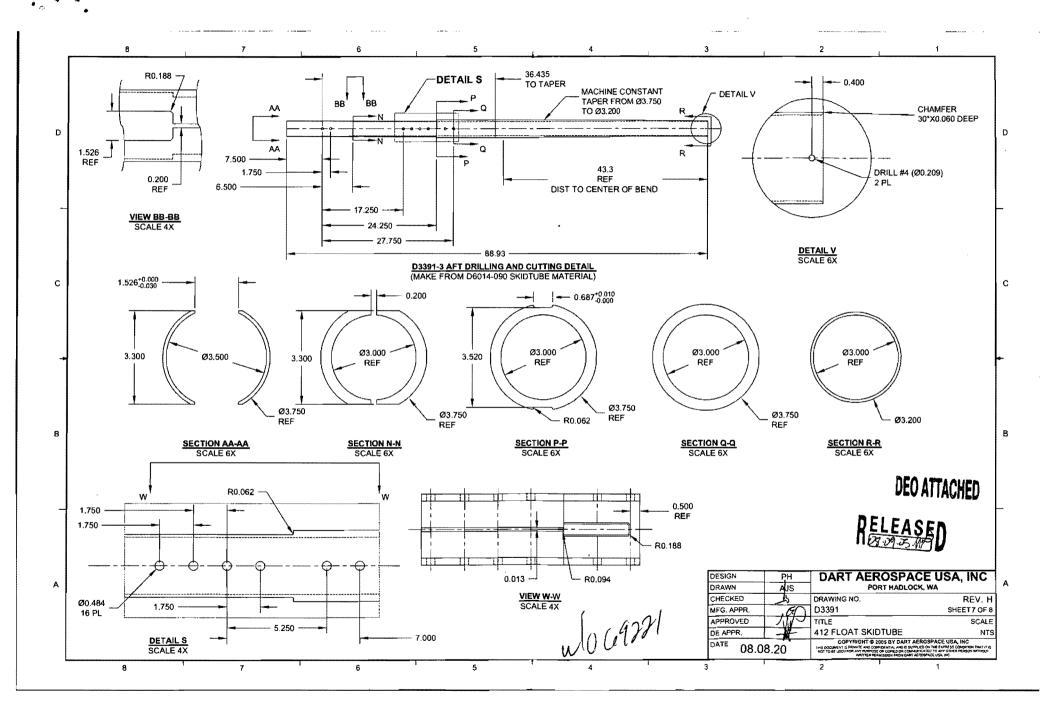
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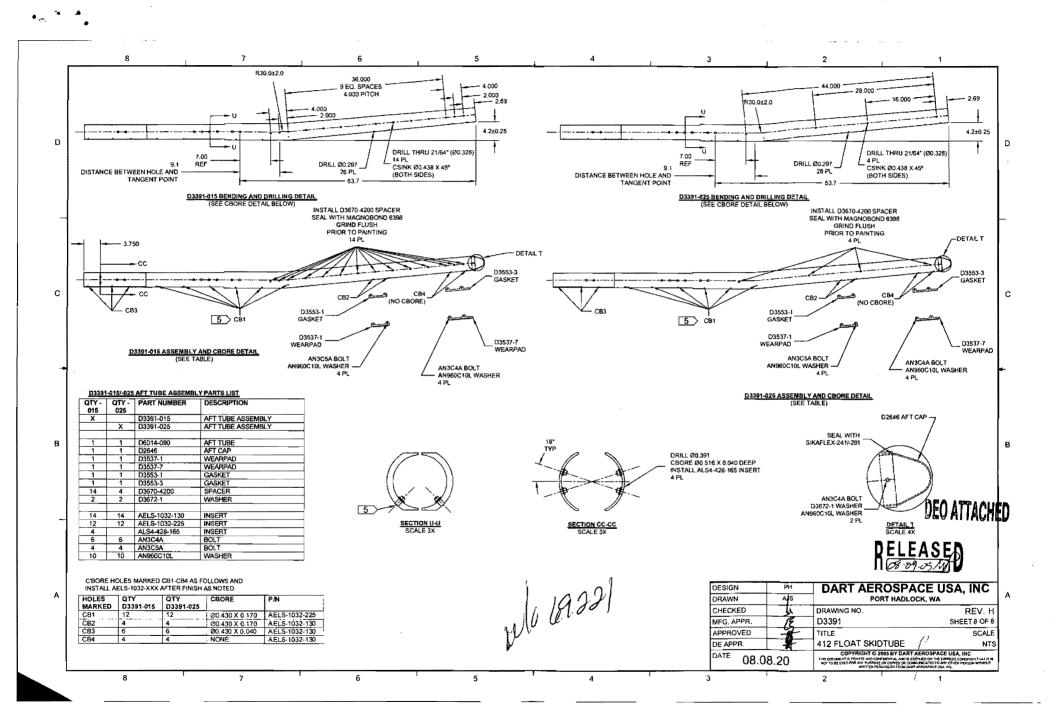
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DRAWING	NO. TITLE		REV. H D.	ART AEROS	PACE USA, IN	C D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLO	AT SKIDTUBE	,	ENGINEER	RING ORDER	D3391-H-1	SHEET 1 OF,1	NTS
DRAWN	A?	CHECKED	Ţ.	MFG. APPR.	δ	APPROVED MA	DE APPR.	
DATE	09.09.23	DATE 04	04.24	DATE 09	09/25	DATE 09/09/30	DATE 09/09/3	9

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPG LABORATORIES "LPS-3" AFTER FINIGH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 02

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DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Action Descr		Sign & Date	Verification C		Approval QC Inspector
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NO. \$250

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barclay Elliott	
Part number: $\lambda 339/-023$	
Description: 389/ Welding Process: Tig[X] Mig[]	
Base materiel: Current: AC[\(\frac{1}{2}\)] DC[\(\frac{1}{2}\)]	
·	
TEST REQUIREMENTS AND	

RESULTS

Visual: Penetration:	pass[\f] pass[\f]	fail[] fail[]
UNACCEPTABLE		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[/] pass[/] pass[/] pass[/] pass[/] pass[/]	fail[] fail[] fail[] fail[] fail[]
Qualifier (7.1.4.1.) Welder (2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.		est Coupon //-04-28 est Coupon //-04-28

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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